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(54) Title: DENSIFICATION OF CERIA BASED ELECTROLYTES

(57) Abstract: The fabrication of ceria based electrolytes to densities greater than 97 % of the theoretical achievable density at temperatures below 1200 °C, preferably approximately 1000 °C, is disclosed. The electrolyte has a concentration of divalent cations minus an adjusted concentration of trivalent cations of between 0.01 mole % and 0.1 mole %.